NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [X] Special				Test Date: 7/25/85	
Company: Northwest Pipeline Corporation		Connection: New Completion			
Pool: Basin		Formation: Dakota		Unit: Rosa	
Completion Date: 10-01-84	Total Depth: 8141'	Plug Back TD: 8096'	Elevation: 6436' GR	Farm or Lease Name: Rosa Unit	
Csg. Size: 4.500 / Wt.: 11.6 / d: 4.052 / Set At: 8139'		Perforations: From 7896' To 8062'		Well No.: #99Y (DK)	
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 7340'		Perforations: From To		Unit: N / Sec.: 26 / Twp.: 31N / Rge.: 6W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Gas - Dual		Packer Set At: 7350'		County: Rio Arriba	
Producing Thru: Tubing	Reservoir Temp. °F: θ	Mean Annual Temp. °F:	Baro. Press. – P_a: 12.0	State: New Mexico	
L:	H:	Gg: Est. .600	% CO_2:	% N_2:	% H_2S:
Prover: Positive Choke	Meter Run:	Taps:			

FLOW DATA					TUBING DATA		CASING DATA		
NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	SIP				2445				
1.	2" X .750"			77°	112	77°			3 Hrs.
2.									
3.									
4.									
5.									

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	9.604		124	.984	1.291	1.011	1529
2.							
3.							
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 2457 P_c^2 6036849

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		268	71824	5965025
2		(Calc.)		
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0120$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0090$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1543$

Absolute Open Flow 1543 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .75

Remarks: Unloaded in 4 mins. and blew to a heavy mist remainder of test. Vented 191 MCF.

Gl	i-e-s	$Fc Q^2$	R^2	Pt^2	R^2+Pt^2	Calc. Pw
4404	.274	206660	56625	15376	72001	268 psia

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	C. Charley	S.K. Liese	M.J. Turnbaugh

skl